## AMENDMENTS TO THE CLAIMS

- (Original) In a transfer system for transferring workpieces between successive 1. die stations in a stamping press having a left side, a right side, a front side and a back side, and including at least one elongate bar having a series of workpiece grippers mounted thereon for engaging workpieces at the successive die stations, a primary support arrangement adapted for mounting adjacent said stamping press, two elongate support beams mounted on said primary support arrangement and positioned on first and second opposite sides of said stamping press during use of said transfer system, and two mounting heads mounted on each support beam and horizontally movable on their respective support beam, the improvement wherein each mounting head is independently movable on its respective support beam and is selectively connectible by means of one of said at least one elongate bar to either the other mounting head mounted on the same support beam for the purpose of transferring said workpieces in a left-right flow direction relative to said press or an opposing one of the mounting heads mounted on the other support beam for the purpose of transferring said workpieces in a front-back flow direction relative to said press, and wherein each mounting head includes a coupling for detachably connecting one of said at least one bar to the mounting head, a vertical transport mechanism for moving said coupling vertically, and a lateral transport mechanism for moving said coupling in a front-back direction relative to said press, and wherein said transfer system also includes longitudinal transport drive systems for moving each of said mounting heads in a left-right direction relative to said press.
- 2. (Original) The system of claim 1 wherein there are four of said longitudinal transport drive systems, one for each of said mounting heads and each longitudinal transport

drive system comprises a belt drive assembly including a primary drive belt mounted on the support beam for the respective mounting head and extending in the lengthwise direction of this support beam and a drive motor mounted on its respective mounting head and having an output shaft operatively connected to a drive pulley that engages said primary drive belt.

- 3. (Original) The system of claim 1 wherein each vertical transport mechanism includes a supporting body mounted for vertical movement relative to its respective support beam and each lateral transport mechanism includes a horizontally extending, elongate support member mounted for substantially horizontal movement on said supporting body.
- 4. (Original) The system of claim 3 wherein said supporting body is a L-shaped housing having a vertical housing section and a horizontal housing section rigidly connected to each other, said elongate support member is slidably mounted in said horizontal housing section, and said lateral transport mechanism includes a lateral belt drive assembly including a lateral drive belt connected to said elongate support member and a drive motor mounted on said supporting body and having an output shaft operatively connected to a drive pulley that engages said lateral drive belt whereby, during use of said transfer system, rotation of said drive pulley causes said support member to move in the front-back direction.
- 5. (Original) The system of claim 3 wherein each mounting head includes a carriage assembly mounted for horizontal movement on its respective support beam, said supporting body is mounted for vertical movement on said carriage assembly, and each of said longitudinal

transport drive systems is connected to a respective one of the carriage assemblies in order to move the one carriage assembly in a left-right direction during use of said transfer system.

- 6. (Original) The system of claim 5 wherein each longitudinal transport drive system comprises a primary belt drive assembly including a primary drive belt mounted on the support beam for the respective mounting head and extending in the lengthwise direction of this support beam and a primary drive motor mounted on its respective carriage assembly and having an output shaft operatively connected to a primary drive pulley that engages said primary drive belt.
- 7. (Original) The system of claim 6 wherein each of said support beams is vertically movable on said primary support arrangement and said system includes a vertical drive unit at each end of each support beam for moving its respective support beam upwardly or downwardly as required.
- 8. (Original) The system of claim 7 wherein said primary supporting arrangement comprises four vertical, elongate beam-supporting posts each adapted for mounting to or adjacent to said stamping press, each end of each support beam is movably mounted on a respective one of said beam-supporting posts, and each vertical drive unit is mounted on a respective one of said beam-supporting posts.

- 9. (Original) The system of claim 4 wherein each drive motor is mounted on its respective vertical housing section at a location spaced above said horizontal housing section, and said drive pulley is rotatable about a horizontal axis.
- 10. (Original) The system of claim 1 including first and second pairs of said at least one elongate bar, the first pair of bars being substantially longer than the second pair and each of the first pair being adapted to connect the two mounting heads on a respective one of said support beams, the bars of said second pair each being adapted to connect an opposing pair of the mounting heads mounted on said support beams, wherein during use of the transfer system either said first pair of bars can be used for transferring said workpieces in a left-right flow direction or said second pair of bars can be used for transferring workpieces in a front-back flow direction.
  - 11. (Canceled)
  - 12. (Canceled)
- 13. (Currently Amended) A transfer system according to claim [[12]] 32 wherein said supporting body is a L-shaped housing having a vertical housing section and a horizontal housing section rigidly connected to each other, said elongate support member is slidably mounted in said horizontal housing section, and said lateral transport mechanism includes a lateral belt drive assembly including a lateral drive belt connected to said elongate support member and a drive motor mounted on said supporting body and having an output shaft operatively connected to a drive pulley that engages said drive belt whereby, during use of said

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transfer system, rotation of said drive pulley causes said support member to move in the front-

back direction.

14. (Currently Amended) A transfer system according to claim [[12]] <u>32</u> wherein the

or each mounting head includes a carriage assembly mounted for horizontal movement along

said support beam, said supporting body is mounted for vertical movement on said carriage

assembly, and said longitudinal transport drive system is connected to said carriage assembly in

order to move the mounting head in a left-right direction during use of said transfer system.

(Original) A transfer system according to claim 14 wherein said longitudinal 15.

transport drive system comprises a belt drive system including a primary drive belt mounted on

said support beam and extending in the lengthwise direction of the support beam and a drive

motor mounted on said carriage assembly and having an output shaft operatively connected to a

drive pulley that engages said primary drive belt.

16. (Original) A transfer system according to claim 14 wherein said supporting

structure comprises two vertical, elongate supporting assemblies, a respective one of which is

arranged at each end of said support beam, said support beam is mounted for vertical movement

on the two supporting assemblies, and a vertical power drive arrangement is provided for moving

said support beam vertically on said two supporting assemblies.

17. (Original) A transfer system according to claim 13 wherein said drive motor is

mounted on said vertical housing section at a location spaced above said horizontal housing

section, said drive pulley is rotatable about a horizontal axis, and said lateral drive belt has a vertical belt section located within and extending along said vertical housing section.

- 18. (Currently Amended) A transfer system according to claim [[11]] 32 wherein there are two of said at least one mounting head, the two mounting heads are mounted on said support beam for horizontal movement along said support beam, and the transfer system includes said elongate bar which extends between and is connected to both of said mounting heads, said mounting heads being movable together and in the same manner during use of said transfer system.
- 19. (Currently Amended) A transfer system according to claim [[12]] <u>32</u> wherein there are two of said at least one mounting head, the two mounting heads are mounted on said support beam and are adapted for independent horizontal movement along said support beam, and said longitudinal transport drive system comprises two longitudinal drive assemblies each including a primary drive belt mounted on the support beam and extending in the lengthwise direction of the support beam and a drive motor mounted on its respective mounting head and having an output shaft operatively connected to a drive pulley that engages its respective primary drive belt.

Claims 20-31 (Canceled)

32. (New) A transfer system for transferring workpieces between successive die stations in a stamping press having left and right sides, a front side, and a back side, said transfer

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system comprising: a substantially horizontal support beam adapted for placement adjacent one of the sides of the press; a supporting structure for said support beam, which is adapted for mounting on said supporting structure; at least one mounting head mounted on said support beam for horizontal movement along said support beam, the or each mounting head including a coupling for detachably connecting an elongate bar to the mounting head, said bar being adapted to mount a series of workpiece holders for engaging workpieces at the successive die stations, a lateral transport mechanism for moving said coupling in a front-back direction relative to said press, and a vertical transport mechanism for moving said coupling vertically; said transfer system also having a longitudinal transport drive system for the or each mounting head capable of moving the or each mounting head independently of any other mounting head, if any, in a left-right direction relative to said press, wherein said vertical transport mechanism includes a supporting body mounted for vertical movement on said support beam and wherein said lateral transport mechanism includes a horizontally extending, elongate support member mounted for substantially horizontal movement on said supporting body.